

CHUMACHENKO, N.V.; SOKOLOVA, E.M.

Role of intervals between the administration of antigens and antibiotics in the development of immunity. Antibiotiki 5 no.6:
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immun. 32 no.1:73-76 Ja '61. (MIRA 14:6)

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(IMMUNITY)

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"Mechanism of inhibiting action of antibiotics on the development of post-vaccination immunity."

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Inst for Pharmacology & Chemotherapy, AMS USSR, Moscow.

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Formation of antibodies by a spleen transplant under the influence of antibiotics. Antibiotiki 8 no.7:601-604 Jl'63
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AMN SSSR, Moskva.

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organicheskoy khimii AN SSSR, Moskva.

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aseptic exudate in white rats. Zhur.mikrobiol., epid. i immun. 42
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PROKOPENKO, Ivan Nikitich, VAZIN, Dmitriy Aleksandrovich, CHUMACHEMKO,
Petr Petrovich; VESKOV, M.I., otv. red.; SHUSHKOVSKAYA, Ye.L.,
red. izd-va; VINOGRADOVA, G.V., red. izd-va; NADEINSKAYA,
A.A., tekhn. red.

[Working coal beds in Central Asia] Razrabotka ugol'nykh plastov
Srednei Azii. Moskva, Ugletekhizdat, 1958. 159 p. (MIRA 11:11)
(Soviet Central Asia--Coal mines and mining)

Ziv' S3 L 05133-67 EWT(1) JK

ACC NR: AP6032093 SOURCE CODE: UR/0438/66/028/005/0058/0061

*10
B*

AUTHOR: Aleksevych, Ya. I. -- Aleksevich, Ya. I.; Chumachenko, S. S.

ORG: L'vov Institute of Epidemiology and Microbiology (Institut epidemiologiyi i mikrobiologiyi)

TITLE: Comparative evaluation of new methods for detecting tetanus agents

SOURCE: Mikrobiologichnyy zhurnal, v. 28, no. 5, 1966, 58-61

b

TOPIC TAGS: tetanus, fluorescent antibody test, hemagglutination test, immunolectrophoresis, tetanus detection, toxigenic tetanus, nontoxigenic tetanus

ABSTRACT: The possibility was investigated of applying the fluorescent antibody method, the passive hemagglutination test, and immunolectrophoresis for detecting tetanus. The data obtained were compared by bioassay on albino mice. Investigations were carried out on seven standard strains of tetanus bacilli, 155 soil samples, and material from 33 tetanus patients. A biological test on albino mice may detect only those tetanus strains that produce biologically active toxin. The method of fluorescing antibodies can detect tetanus bacilli visually within 24 hours, but cannot determine their vital activity and toxigenicity. The passive hemagglutination test can detect both

Card 1/2

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toxigenic and non-toxigenic tetanus strains, since the specific antigen is found both in the form of toxin and of the non-toxic component. Immunoelectrophoresis may be used when the results obtained by other methods are inconclusive. Thus, to detect all tetanus strains in material under examination the fluorescent antibody method or the passive hemagglutination test can be used along with bioassay. Orig. art. has: 3 tables. [Based on authors' abstract] [W.A.S.] [KS]

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DOBROVOL'SKIY, V.A., prof., zasluzhennyy deyatel' nauki i tekhniki, doktor
tekhn.nauk; CHUMACHENKO, T., vedushchiy red.; VUYEK, M., tekhn.red.

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(Machinery--Design)

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[Cutter-loaders] Vuhil'nyi kombain. Kyiv, Derzh. vyd-vo tekhn.
lit-ry URSR, 1956. 50 p. (MLRA 10:5)
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"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120001-3

MEREL'MAN, Ya.I.; CHUMACHENKO, T. [translator]; AFONINA, G., veduchiy
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[Mechanics made interesting] TSikava mekhanika. Kyiv, Derzh.
vyd-vo tekhnichnoi lit-ry URSR, 1956. 163 p. (MLRA 9:12)
(Mechanics)

APPROVED FOR RELEASE: 06/12/2000

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BILETS'KIY, M.L., inzhener; DATSENKO, I.K., kandidat tekhnicheskikh nauk;
KLIMENKO, V.M., inzhener; LAMASH, I.D., inzhener; MAGULA, O.N.;
PAVLENKO, V.A., inzhener; CHUMAČHENKO, T., veduchiy redaktor;
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[Manual on the use of automobiles on collective farms] Posibnyk po
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lit-ry URSR, 1956. 370 p. (MLRA 10:2)
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chernykh metallov, Kiev, Gos.izd-vo tekhn.lit-ry USSR, 1957.
318 p.
(Steel-Standards)

Ivakhnenko, A.G. Chumachenko, T.

Call Nr: AF 1138801

AUTHOR: Ivakhnenko, A.G.

TITLE: Electric Automation; Elements of the Theory of Electric Control Systems (Elektroavtomatika; elementy teorii elektricheskikh sistem regulirovaniya)

PUB. DATA: Gosudarstvennoye izdatel'stvo tekhnicheskoy literatury UkrSSR, Kiyev, 1957, 350 pp., 7,800 copies

ORIG. AGENCY: None given

EDITOR: Chumachenko, T.; Tech. Ed.: Novik, A.; Revisers: Pavlenko, V. and Chaban, O.

PURPOSE: This book is concerned with the more important theoretical problems of automatic control and is addressed to a wide circle of engineering and technical workers, and to students following courses in the higher electrical engineering institutes.

COVERAGE: The book devotes special attention to the problems of "compromise balancing" which is considered the basic problem in static control systems.

Card 1/19

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Electric Automation; Elements of the Theory of Electric Control Systems

The author also devotes special attention to composite automatic control systems in which the control device is actuated either by changes in the controlled magnitude or directly by changes of the basic load and of its time derivatives. In the introduction, the names of authors of basic text books and monographs on the subject are given, namely: Voronov, A.A., Fateyev, A.V., Yegorov, K.V., Fel'dbaum, A.A., Meyerov, V.M., and others (p. 4). Academician Kulebakin, V.S., is mentioned (pp. 4, 290-293) as the one who demonstrated that disturbance actuated systems are those in which the so called "invariance conditions" of the magnitude to be controlled can be created, in which case the error equals zero. Gol'dfarb, L.S., (pp. 6, 406), Tsypkin, Ya.Z. and Popov, Ye.P. (p. 6), made important contributions to the method of harmonic balance; Tsypkin worked on the elements of the theory of discontinuous control and Solodovnikov, V.V., on statistical methods of allocating disturbances. In the text some research institutes and several names of Soviet scientists and their contributions to the theory and technique of automatic control are given. These include: Tsypkin, Ya.Z., (pp. 23, 163), pulse technique; Ostrogo, P. P. (pp. 24-26), frequency regulator; Chikolev, V.N. (pp. 31, 351 - 352, 359-360, 409), systems with disturbance effect and controlled effect; Ivakhnenko, A.G. (p.31),

Card 2/19

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Electric Automation; Elements of the Theory of Electric Control Systems

servo-motor with magnetic amplifiers control; VEI (All-Union Institute of Electrical Engineering), (pp. 34-36, 174-177), electron and ionic voltage regulator; the CH-91 type voltage regulator is described (pp. 44-45); Parra, I.K. (p. 69), a three-step magnetic amplifier; Vyshnegradskiy, I.A. (pp. 85, 98, 156, 158), automatic control theory; Solodovnikov, V.V. (pp. 86, 163, 268-269, 315), study of system stability applying the method of transfer-locus analysis; Kryzhanovskiy, O.M. (pp. 143, 241-245, 295-296), formulae for the determination of the average deviation; Mikhaylov, A.V. (pp. 162, 188-194), author of the stability criterion bearing his name; Sokolov, A.A. (p. 163), the transfer locus method of stability investigation; Voronov, A.A. (pp. 163, 248), integral criterion for the determination of the quality of control; Teodorovich, K.F., Bromberg, P.V., Shkabara, Ye.A. and Tsyplkin, Ya.Z. (p. 233) the problem of establishing criteria of the maximum degree of stability; Mandel'shtam, L.I. and Papaleksi, I.D., Kharkevich, A.A., Kryzhanovskiy, O.M., Krasovskiy, A.A., Moiseyev, N.D., Balkind, Ya.Z., and Fel'dbaum, A.A. (p. 241) the method of quadratic error; articles of Imedadze, V.V. (p. 268), Zaytsev, G.F. (p. 280) and the books

Card 3/19

Call Nr: AF 1138801

Electric Automation; Elements of the Theory of Electric Control
Systems

TABLE OF CONTENTS

Page

3

Preface

Ch. I. Fundamental Concepts and Definitions

Maintaining constancy (stability) of the controlled
magnitude as one of the most important problems of
control

7

Problems of program and servomechanism control
systems

10

12

Optimalizing control systems

13

Classification of disturbance effects

15

Basic types of automatic control systems

18

Voltage and speed of rotation regulators

18

Example of a structural diagram of automatic
control systems

47

Card 5/19

Call Nr: AF 1138801

Electric Automation; Elements of the Theory of Electric Control
Systems

Special considerations in setting up dynamics equations for automatic control systems designed for checking stability and studying transient conditions for small deviations	90
Number of degrees of freedom of a control system	103
Detecting characteristic (directed action) of control systems	105
Analogy between dynamics equations of elements having different physical natures	106
Basic types of inertia links	107
Dynamics equations of a system in the closed circuit state	117
Examples of setting up dynamics equations for a system and determining the numerical values of their coefficients	119

Card 7/19

Call Nr: 1138801

Electric Automation; Elements of the Theory of Electric Control
Systems

determining the characteristics of one of the elements of an A.V. Mikhaylov photocompensator by the method of graphic iteration (an example)	135
Synthesis of the characteristics of one of the elements by the method of graphic iteration	139

Ch. III. Stability of Automatic Control Systems

Checking an automatic control system for stability by the method of analyzing the coefficients of the differential equations	141
Hurwicz stability criterion	144
Methods of varying the stability of control systems	146
Stability of a voltage control system with a carbon resistance	150
Stability of an automatic course control system (an example)	154

Card 9/19

Call Nr: 1138801

Electric Automation; Elements of the Theory of Electric Control
Systems

Admittance of a system equipped with a БЭЧ (All-Union Electrotechnical Institute) control unit (an example)	174
Basic forms and interrelation between frequency response characteristics	177
Method of transfer locus. A stability criterion utilizing the $Y_p(p)$ characteristic (Nyquist's criterion)	180
Analytic computation of the $Y_p(j\omega)$ transfer characteristic of a control system	183
Physical significance of the effect of controlling action derivative feedback	186
Certain properties of the $Y_p^*(j\omega)$ transfer characteristics	187
The A.V. Mikhaylov stability criterion utilizing the $Z_3(j\omega)$ or $Y_3(j\omega)$ characteristics	188

Card 11/19

Call Nr: 1138801

Electric Automation; Elements of the Theory of Electric Control
Systems

Ch. IV. Circuit Synthesis and Determining Optimal Balancing for
Automatic Control Systems

Compromise balancing: the basic problem in static control systems	215
Relation between the statics and the stability of a stabilization system	216
Relation between the tracking error and the stability of servomechanisms	220
Method of studying properties of steady transients	229
Criteria for root distribution of a characteristic equation on a complex plane	232
Integral criteria for the dynamic characteristics of control processes	239
Reverse methods of studying linear combined control systems	245

Card 13/9

Call Nr: 1138801
Electric Automation; Elements of the Theory of Electric Control
Systems

Comparison of two methods of studying the characteristics of the control processes actuated by a change in the basic disturbances	248
Examples of general solutions of dynamics equations by the reverse method for a system of the second and third order	262
Approximate estimation of the properties of the processes in automatic control systems from the form of the real frequency response	267
Frequency expression of compromise balancing conditions	269
Optimal form of the transfer characteristics for stable control systems	269
Synthesis of a sequential correcting unit for a servo-mechanism in which there is no control action differentiator	272
Initial conditions of movement of combined automatic control systems	281
Equivalent conditions of certain linear compensated systems	289

Card 14/19

Call Nr: 1138801

Electric Automation; Elements of the Theory of Electric Control
Systems

Four forms of invariancy conditions of the controlled magnitude	289
Invariance conditions with nonzero real initial operating conditions	293
Basic concepts of the theory of transient operating conditions of combined systems of automatic control	296
General method of studying quality of transients in combined systems	302
Studying combined systems by the "partial" method	305
Examples of determinations of the optimal values of the variable system parameters by the reverse method (the "partial" method)	305
Basic concepts of the theory of steady state operating conditions of combined systems of automatic control	326
Accuracy characteristics of steady state and transient operating conditions	339

Card 15/19

Call Nr: 1138801

Electric Automation; Elements of the Theory of Electric Control
Systems

Root distribution criteria as a means of determining c_{min} and s indexes, and integral criteria for determining I_2 and γ indexes	343
Choice of links in combined systems of automatic control	349
Superiority of disturbance actuated combined systems	359
Cases in which it is disadvantageous to use a combined system of control	360
Procedure of computing parameters of a combined system	361
Ch. V. Nonlinear Automatic Control Systems With Combined Control	
Use of combined control in slightly nonlinear systems	362
Use of combined control in automatic control systems with a limited capacity of the servomotor	371
Use of combined control in systems with constant speed of the servomotor	380
Conceptual block diagram of a combined system of control with constant speed of the servomotor	381

Card 16/19

Call Nr: 1138801
Electric Automation; Elements of the Theory of Electric Control
Systems

Examples of stabilization systems with constant speed of the servomotor	382
General form of a dynamics equation of a system and accepted limitations	384
Phase space of a system and the character of the free movement in it	385
Possibility of control through the basic disturbance and its derivatives, and of using disconnecting arrangements in systems with constant speed of the servomotor	388
Physical essentials of the action of a relaxation feedback ("ustroystvo forsirovki")	388
Reverse method of designing the relaxation feedback for stabilization systems	392
BTU (The All-Union Heat Engineering Institute) electron regulator	403

Card 17/19

Call Nr: 1138801

Electric Automation; Elements of the Theory of Electric Control
Systems

Bias circuit used to effect stabilizing action	406
Determining the parameters of a two-link relaxation feedback	407
Ratio regulators and their advantage	409
Reverse method of designing a relaxation feedback for servomechanism control systems	410
Ch. VI. Automatic Control Systems with Logical Action Elements	
Value of the logical action function of control machines for the automation of production processes	419
Optimalizing control systems as an example of the practical utilization of the simplest and most reliable logical action elements for controlling production processes	420
Four basic principal setups of an optimalizing control system	421
Synchronous tracking system with self-oscillating control	433

Card 18/19

Call Nr: 1138801

Electric Automation; Elements of the Theory of Electric Control Systems	
Other examples of the utilization of optimalizing control for the automation of production processes	435
Elaboration of the theory of optimalizing control systems	437
Superiority of optimalizing control systems over systems with assigned balancing	439

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Card 19/19

CHUMACHENKO, T.

RABINOVICH, Avram Makhimovich; CHUMACHENKO, T., redaktor; MATUSEVICH, S.,
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[Automatic control in machinery manufacturing] Avtomatyzatsiya v
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(MLD 10:10)
391 p.
(Automatic control) (Machinery industry)

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systems of control] Elektroavtomatika; elementy teorii elektri-
cheskikh sistem regulirovaniia. Kiev, Gos.izd-vo tekhn.lit-ry
USSR, 1957. 449 p.
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165 p. (MLRA 10:10)

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[Gas industry of the Ukraine and the seven-year plan] Hazova
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[Manual on horizontal and inclined mining operations] Posobie
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[Ukrainian ferrous metallurgy] Chorna metalurgiia Ukrayny.
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(Steel--Metallurgy)

AVLASENKO, Yuriy Georgiyevich; KOVALEVSKIY, Mikhail Mikhaylovich;
CHUMACHENKO, T., red.; SHAFETA, S., tekhnred.

[Automatic control of mine systems] Avtomatizatsiya shakhnykh
ustanovok. Izd.2., dop. 1 perer. Kiev, Gos.izd-vo tekhn.lit-ry
USSR, 1960. 458 p. (MIRA 14:6)
(Coal mines and mining--Equipment and supplies)
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BORNATSKIY, Ivan Ivanovich; CHUMACHENKO, T.I., red.; SEAFETA, S.N.,
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[Use of natural gas for the operation of open-hearth furnaces]
Primenenie prirodnogo gaza dlja otoplenija martenovskikh pechej.
Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1962. 105 p.

(MIRA 15:4)

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Effect of tetraethylammonium iodide on the solubility of
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Izv. vys. ucheb. zav; khim. i khim. tekhn. 3 no. 5:836
'60. (MIRA 13:12)
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NIKITIN, Aleksey Ivanovich; CHUMACHENKO, T.I., red.; SYCHUGOV, V.G., tekhn.
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[Pelletizing of iron ores] Pelletirovanie zheleznykh rud. Kiev,
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ZAYKOV, Solomon Tevovich; CHUMACHENKO, T.I., red.; SHAFETA, S.M., tekhn.
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USSR, 1961. 157 p. (MIRA 15:1)
(Bessemer process)

SERGEYEVA, V.F.; CHUMACHENKO, T.G.

Effect of certain substances on the solubility of benzoic acid
in alcohol. Zhur. obshch. khim. 35 no.4:597-599 Ap '65.

(MIRA 18:5)

1. Kazakhskiy gosudarstvennyy universitet imeni S.M. Kirova.

KRAVTSOV, Aleksandr Feodos'yevich; ALEKSEYEV, Boris Grigor'yevich;
CHUMACHENKO, T.I., red.; GUSAROV, K.F., tekhn. red.

[Control and automation of metallurgical processes; practical laboratory course] Kontrol' i avtomatizatsiya metallurgicheskikh protsessov; laboratornyi praktikum. Kiev, Gos.izd-vo tekhn.lit-ry USSR, Pt.2. [Automatic control] Avtomaticheskoe regulirovaniye, 1961. 235 p.

(MIRA 15:1)

(Automatic control)

SHTETS, Konstantin Aleksandrovich, dotsent, kand.tekhn.nauk; LIHERMAN,
Lazar' Moiseyevich, dotsent, kand.tekhn.nauk; SAMET, Joel'
Markovich, dotsent, kand.ekonom.nauk; CHUMACHENKO, T.I., red.;
SHAFETA, S.M., tekhn.red.

[Industrial organization and planning in steel plants]
Organizatsiya i planirovanie proizvodstva na metallurgicheskikh
predpriatiakh. Kiev, Gos.izd-vo tekhn.lit-ry USSR, 1961.
693 p. (MIRA 15:5)

(Iron industry) (Steel industry)

SAMSONOV, Grigoriy Valentinovich; KOVAL'CHENKO, Mikhail Savvich;
CHUMACHENKO, T.I., red.; MATUSEVICH, S.M., tekhn. red.

[Hot pressing] Goriachee pressovanie. Kiev, Gos.izd-vo tekhn.
lit-ry USSR, 1962. 211 p. (MIRA 15:7)
(Powder metallurgy)

DEGTYAREV, Vladimir Ivanovich, gornyy inzh.; DUBINSKIY, M.I.,
kand. tekhn. nauk, retsenzent; CHUMACHENKO, T.I., red.

[Labor productivity in Donets Basin mines] Proizvodi-
tel'nost' truda na shakhtakh Donbassa. Kiev, "Tekhnika,"
1964. 165 p. (MIRA 17:6)

CHUMACHENKO, V., metodist; IVANOVA, R.

Exhibitions of special items. Inform.biul.VDNKH no.3:14-16 Mr
'64. (MIRA 17:3)

1. Pavil'on "Energetika i elektrifikatsiya" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Chumachenko).
2. Glavnny metodist pavil'ona "Myasnaya promyshlennost'" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Ivanova).

VATCHENKO, G. [Vatchenko, H.]; OGRYZKINA, O. [Ohryzkina, O.];
STHUCHKOVA, N.; KHANIAS-NIBO, M.; CHERNYKH, O.; CHUMACHENKO, V.;
SHEVCHENKO, G. [Shevchenko, H.]; DEMERDZHI, D., red.; SHTEYN, M.,
red.; KOLOMOYTSEVA, F., tekhn.red.

[Dnepropetrovsk; reference-guidebook] Dnipropetrov's'k; dovidnyk
putivnyk. Vydr.2., vypravlene i dop. Dnipropetrov's'k. Dnipro-
petrov's'ke knizhkove vyd-vo, 1959. 300 p. (MIRA 13:8)

1. Dnepropetrovskiy gosudarstvennyy istoricheskiy musey (for all,
except Demerdzhi, Shteyn, Kolomoytseva).
(Dnepropetrovsk--Guidebooks)

CHUMACHENKO, V.

Method of fastening fiberboard slabs together. Stroitel' 9
no.2:27 F '63. (MIRA 16:2)
(Fiberboard)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120001-3

Automatic Welding of Fibre Glass Reinforced Plastics
V. A. Chumachenko, V. P. Stepanko and M. I. Denisov
Avtom. Svarka, 1961, No. 3, p. 182-187 (In Russian)
Equipment and technology for the automatic welding under
flux of linearly moving electrodes

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CIA-RDP86-00513R000509120001-3"

CHUMACHENKO, Vasiliy Afenogenovich; STEPENKO, Vasiliy Petrovich; PIVOVAROV, Lev Aleksandrovich; SKRIPNICHENKO, Dmitriy Pavlovich; NOSKOV, M.M., redaktor; KHITROV, P.A., tekhnicheskij redaktor

[Hardening of locomotive parts by high frequency current] Zakalka parvovoznykh detalej tokami vysokoi chastoty; opyt depo imeni A.A. Andreeva st. Kiev-passazhirskii. Moskva, Gos. transp. zhel-dor. izd-vo, 1954. 109 p. (MLRA 8:6)
(Steel--Heat treatment) (Induction heating)

CHUMACHENKO, V.A., kandidat tekhnicheskikh nauk.

Investigating the drying of fruit in a high-frequency electric field.
Nauch.trudy VIRESNI 2:167-184 '56. (MIRA 10:1)
(Fruit--Evaporation) (Drying apparatus) (Electric currents)

CHUMACHENKO, V.A.; STEPENKO, V.P.

Improved technology for repairing steam superheater parts. Zhel.
dor.transp. 39 no.7:74-75 J1 '57. (MLRA 10:8).

1.Nachal'nik parovoznogo depa Kiyev-passazhirskiy (for Chumachenko).
2.Glavnyy inzhener depo Kiyev-passazhirskiy (for Stepenko).
(Superheaters)

CHUMACHENKO, V. A.

ASNIS, Arkadiy Yefimovich, kand.tekhn.nauk; GUTMAN, Liya Mironovna, kand. tekhn.nauk; STEPENKO, Vasiliy Petrovich, kand.tekhn.nauk; CHUMACHENKO, Vasiliy Afinogenovich; GALANOVA, M.S., red.; VERINA, G.P., tekhn.red.

[Welding and hard facing under flux in the repair of locomotives]
Svarka i naplavka pod fliusom pri remonte lokomotivov. Moskva.
Gos. transp. zhel. -dor. izd-vo, 1958. 130 p. (MIRA 11:4)

(Welding)

(Locomotives--Maintenance and repair)

(Hard facing)

CHUMACHENKO, V.A.

Arrangement for the ultraviolet irradiation of grain and
corn seeds before sowing. Sbor. nauch.-tekhn. inform. po
elektr. sel'khoz. no.16/17:60-65 '64. (MIRA 18:11)

BORIVITSKIY, V.N.; CHUMACHENKO, V.N.

Exhibition on latest developments in the field of hydroelectric power engineering. Energetik, 13 no. 7:39 Jl '65.

(MIRA 18:8)

1. Direktor pavil'ona "Elektrifikatsiya SSSR" na Vystavke dostizheniy narodnogo khozyaystva (for Borovitskiy). 2. Starshiy inzhener-metodist razdela "Gidroenergetika" pavil'ona "Elektrifikatsiya SSSR" na Vystavke dostizheniy narodnogo khozyaystva (for Chumachenko).

CHUMACHENKO, V.N.; GAL'GEN, Yu.V.

Best electric power plant of the economic council of Rostov.
Energetik 10 no.1:32-34 Ja '62. (MIRA 14:12)
(Rostov---Electric power plants)

CHUMACHENKO, V.N.; SEDEL'NIKOV, V.I., red.; MAYOROV, V.V., tekhn. red.
[Modernization of equipment in operational electric power plants]
Modernizatsiya oborudovaniia na deistvuiushchikh elektrostantsiiakh. Moskva, Vystavka dostizhenii narodnogo khoz. SSSR, 1962.
24 p.
(Electric power plants) (MIRA 16:1)

BOROVITSKIY, V.N.; CHUMACHENKO, V.N.

New topical exhibits at the Exhibition of Achievements of
the National Economy of the U.S.S.R. Elek. sta. 35 no.5:95
My '64. (MIRA 17:8)

CHUMACHENKO, V.P., agronom

Answering the appeal of the Ust'-Labinskaya people with real
deeds. Mekh. sil'. hosp. 14 no.3:3-4 Mr '63. (MIRA 17:1)

1. Kolkhoz im. Chubarya, Polotskogo territorial'nogo proizvodstven-
nogo upravleniya Zaporozhskoy oblasti.

MARTIROSYAN, V.V., assistant; CHUMACHENKO, V.P., ordinator

Brain tumors and pregnancy. Sbor. nauch. trud. Rost. gos med.
inst. no.21:163-167 '63. (MIRA 17:11)

1. Iz kliniki nervnykh bolezney i neyrokhirurgii Rostovskogo-na-
Donu gosudarstvennogo meditsinskogo instituta (zav. kafedroy -
prof. V.A. Nikol'skiy).

CHUMACHENKO, V. P., Cand Agr Sci - "Yellow fodder lupines
on ~~out~~ of the turf-podzol clayey soils (~~of the~~ BSSR central part)."
Minsk, 1961. (Belorus Sci Res Inst of Agr ^{Acad} Acad Agr Sci BSSR)
(KL, 8-61, 255)

- 391 -

MALYUK, Vasiliy Yefremovich, lektor; KHANIAS-NIBO, Nikolay Yakovlevich,
nauchnyy sotr.; CHUMACHENKO, Vasiliy Petrovich, nauchnyy sotr.;
DEMENDZHI, D.L., red.; GLUSHKO, G.I.[Hlushko, H.I.], tekhn.
red.

[Dneprodzerzhinsk; reference and guidebook] Dneprodzerzhinsk;
dovidnyk-putivnyk. Dnipropetrovsk, Dnipropetrov's'ke knyzhkove
vyd-vo, 1960. 165 p. (MIRA 15:1)

1. Dneprodzerzhinskiy gorodskoy komitet Kommunisticheskoy partii
Ukrainy (for Malyuk). 2. Dnipropetrovskiy gosudarstvennyy istoricheskiy
muzey (for Khanias-Nibo, Chumachenko).
(Dneprodzerzhinsk--Guidebooks)

Chumachenko, V.S.

CHUMACHENKO, V.S.

[REDACTED] Use of recirculating water at the Darasun Ore-Dressing Plant
No. 2. TSvet.met. 28 no.2:8-9 Mr-Ap '55. (MIRA 10:10)

1. Nachal'nik Drasunskoy obogatitel'noy fabriki No.2.
(Darasun--Ore dressing)

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CIA-RDP86-00513R000509120001-3"

CHUMACHENKO, V.S., inzhener:

~~MINING MILLS~~ with old rails without concrete. TSvet.met. 29
no.5:72-73 My '56. (MLRA 9:8)
(Darasun--Metallurgical plants)

KAZHINSKIY, Bernard Bernardovich; CHUMACHENKO, V.S., red.; DAKHNO,
Yu.M., tekhn. red.

[Biological radio communication] Biologicheskaya radiosviaz'.
Kiev, Izd-vo Akad.nauk USSR, 1962. 166 p. (MIRA 15:7)
(Thought transference)

CHUMACHENKO, V.S., inzh.

Using nephelines from the Sea of Azov region, Met. i gornorud.
prom. no.1:42-47 Ja-F '62. (MIRA 16:6)

1. Donetskiy sovet narodnogo khozyaystva.
(Azov Sea region—Nepheline)

TRET'YAKOV, Ye.V., kand. tekhn. nauk; KOVALENKO, V.S., inzh.;
CHUMACHENKO, V.S., inzh.; KISELEV, I.M., inzh.

Using compacted addition alloys in the production of low carbon
steel with zirconium. Met. i gornorud. prom. no.6:29-30 N-D '62.
(MIRA 17:8)

1. Trest "Donbasstsvetmet" (for Tret'yakov, Kovalenko).
2. Donetskiy filial Ukrainskogo nauchno-issledovatel'skogo
instituta metallov (for Chumachenko, Kiselev).

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120001-3

CHUMACHENKO, V.S.; KISELEV, I.M.

Full retreatment of pyrite residue. Met. i gornorud. prom.
no.1342-43 Ja-F '65. (MIRA 18:3)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120001-3"

L 32678-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AP6006440

SOURCE CODE: UR/0420/65/000/003/0084/0085

AUTHORS: Lopatin, A. I.; Balyberdin, V. V.; Chumachenko, V. S.; Fomenko, V. I.; Ivanov, G. V.; Trubchaninov, F. A.; Kirichenko, R. P.

18

ORG: none

13

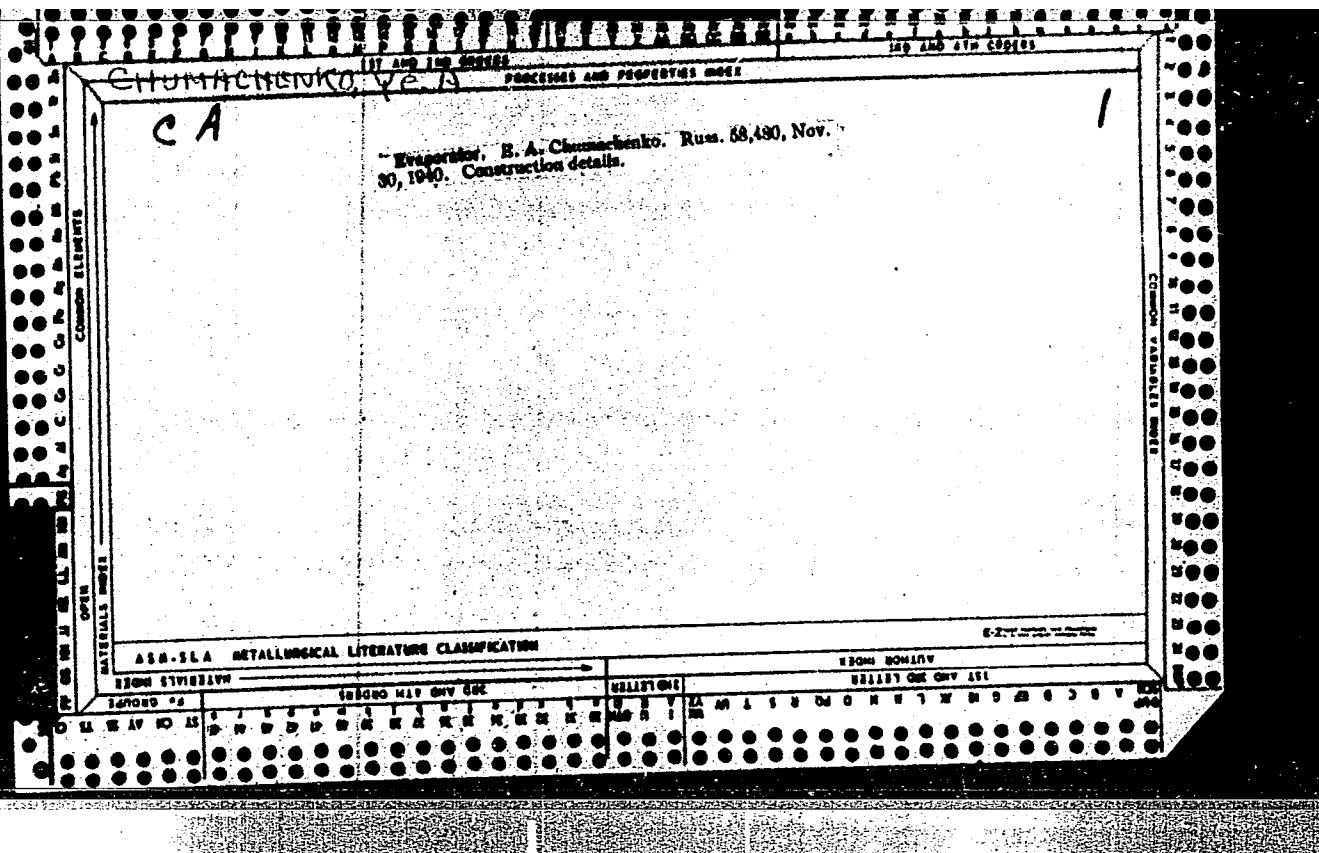
TITLE: Radiotechnical method for measuring the motion parameters of the blank during sheet metal stamping

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 3, 1965, 84-85

TOPIC TAGS: metal stamping, test instrumentation, UHF instrument

ABSTRACT: A mostly qualitative description of a radiotechnical method for measuring the displacement of the die during sheet metal stamping is briefly presented. The method consists of attaching a metal "flag" to the die and using this flag to partially block the path between two ultrahigh frequency waveguides, one of which serves as a transmitter and the other as detector. After calibrating the change in transmitted UHF energy as a function of flag position in the gap between the guides, this curve can be used to interpret the die motion (position or velocity) as recorded on an oscilloscope during a stamping operation. Any centimeter range UHF generator can be used. A sample calibration curve and a sample stamping curve are presented without details or specifications as to operating ranges, accuracy, etc. Orig. art. has: 3 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 001
Card 1/1 p. 1



L 40782-66

ACC NR: AP6018611

Voltage from regulator 1 is fed through step-up transformer 2 and high-voltage rectifier 3 to condenser battery 5 with a total capacitance of 6 μ f. The charging voltage is monitored on electrostatic kilovoltmeter 6. The current in the discharge circuit is registered by a low-inductance Rogowski loop with an integrating circuit connected in the coaxial cable. The signal from this integrating circuit is fed to one channel of an oscilloscope. A capacitance signal from the voltage divider is fed to the second channel of the oscilloscope through a 75 Ω impedance matching resistor. Analysis of the oscillosograms shows that the cyclic frequency of the discharge is 925 Kc while the inductance of the discharge circuit is 0.2 μ h. The current amplitude of the discharge reaches 16 KA when 10 Kv is applied to the condenser plates. Water velocity is a linear function of discharge voltage with the approximate equation $W=4V+1$, where W is water velocity in m/sec and V is voltage in Kv. At a distance of 3 m

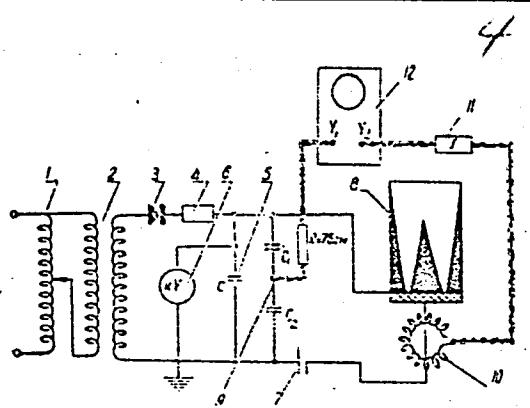


Figure 2: 1--voltage regulator; 2--step-up transformer; 3--20 Kv high-voltage rectifier; 4--60 K Ω discharge resistor; 5--IM-50-3 condenser battery; 6--S-96 kilovoltmeter; 7--discharger; 8--electrohydraulic source; 9--D6-2 voltage divider; 10--Rogowski loop; 11--integrating circuit; 12--OK-17M double beam oscilloscope

Card 2/3

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120001-3

L 40782-66

ACC NR: AP6018611

from the source, the cross sectional area of the water stream is no more than three times that of the source. Orig. art. has: 4 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 007

20/

Card 3/3 *MLP*

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120001-3"

BOGDANOV, A.A., red.; MURATOV, K.V., red.; SHATSKIY, N.S., red.
[deceased]; DOLITSKIY, A.V., red.; CHUMACHENKO, Z.N.,
red.; BOBRINSKAYA, V.A., red.

[Tectonics of Europe; explanatory note to the International
Tectonic Map of Europe made on a scale 1:2,500 000] Tekto-
nika Evropy; ob"iasnitel'naia zapiska k mezhdunarodnoi tek-
tonicheskoi karte Evropy masshtaba 1:2500000. Moskva,
Nedra, 1964. 363 p. (MIRA 18:1)

1. International Geological Congress. Komissiya po geologi-
cheskoy karte mira.

CHUMACHEV, I.F., inzh., red.; ARTYUKHIN, V.A., red. izd-va; GORDEYEVA, L.P., tekhn. red.

[Album of drawings of spare parts for the 1616P high-precision screw-cutting lathe] Al'bom chertezhei zapasnykh detalei tokarno-vintoreznogo stanka povyshennoi tochnosti modeli 1616P. Moskva, Gos. nauchno-tekh. izd-vo mashinostroit. lit-ry, 1961. 39 p.

(MIRA 14:12)

l. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

(Screw-cutting machines)

CHUMACHEV, I.F., inzh., red.; IONOV, P.M., inzh., red. izd-va;
GURDEYEVA, L.P., tekhn. red.

[Standard plan for the modernization of 736 and 7A36 transverse
planing machines] Tipovoi proekt moder izatsii poperechno-
strogal'nykh stankov modelei 736 i 7A36. Moskva, Gos.izd-vo
mashinostroit.lit-ry, 1961. 147 p. (MIRA 15:1)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut
metallorezhushchikh stankov.

(Planing machines—Technological innovations)

KOPERIN, Vladislav Vladimirovich; KORELIN, Dmitriy Sergeevich;
CHUMADIN, I.G., nauchn. red.; TABUNINA, M.L., red.

[Assembling equipment for enterprises of the building
materials industry] Montazh oborudovaniia predpriiatii
promyshlennosti stroitel'nykh materialov. Moskva, Stroi-
izdat, 1964. 330 p. (MIRA 17:9)

CHUMADIN, I.T., inzh.

Assembling a large-block conveyer at the Structural-Glass Plant,
Nov.tekh.mont.i spets.rab.v stroi. 22 no.l:ll-12 Ja '60.
(MIRA 13:5)

1. Trest Promtekhmontazh.
(Saratov--Conveying machinery)

CHUMADIN, I.T., iash.

Erecting a 4.5x170 m rotary cement kiln. Mont.i spets.rab.v stroi.
22 no.3:1-4 Mr '60. (MIRA 13:6)

1. Trest Promtekhmontazh.
(Kilns, Rotary)

CHUMADIN, I.T., inzh.; KOPERIN, V.V., nauchn. red.; SKVORTSOVA, I.P.,
red. izd-va; DAUMOVA, G.D., tekhn. red.

[Industrial methods for the assembly of equipment in cement plants]
Industrial'nye metody montazha tekhnologicheskogo oborudovaniia tse-
mentnykh zavodov. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i
stroit. materialam, 1961. 150 p. (MIRA 14:11)
(Cement plants—Equipment and supplies)

36839
S/137/62/000/004/164/201
A154/A101

1.2300

AUTHORS: Teytel'baum, L.N.; Chumadin, I.T.

TITLE: Automatic half-submerged arc welding of aluminum equipment

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 23, abstract 4E115
("Montazhn. i spetsializor. raboty v str-ve", 1961, no. 11, 3 - 7)

TEXT: The Promtekhmontazh and Orgproyekttekhmontazh trusts have successfully mastered and introduced automatic half-submerged arc welding (svarka polu-otkrytoj dugoy po sloyu flyusa) of Al containers. These containers are made of A1YK (AlUK) aluminum, are 2.3 m in diameter and 10.5 m long, and have 8 mm thick walls and two spherical bottoms of 10 mm thick sheet. 2 mm A₁-1 (AD1) electrode wire and A₁H-A₁ (AN-A1) flux were used for the welding. The metal and welding wire were prepared for welding by normal means. The optimum flux layer - 8 to 9 mm - was found empirically. Welding was done with one electrode and two wires (by the split electrode). ATC-17MY (TS-17MU) tractor was used for annular welds and an AATF-500 (ADPG-500) tractor for the longitudinal welds of the shells and the butt welds of the bottoms; the tractors were adapted for half-submerged arc welding. A special production line was organized for making the elements, and assembling

Card 1/2

Automatic half-submerged arc welding of

S/137/62/000/004/164/201
A154/A101

and welding the equipment on an assembly site. For welding the annular welds dispensable (neostayushchiyesya) backing rings were used.

V. Klyuchnikova

[Abstracter's note: Complete translation]

✓

Card 2/2

CHUMADIN, I.T., inzh.

Welding stainless steel pipe in an agron atmosphere. Mont. i
spets.rab. v stroi 24 no.12:23-24 D '62. (MIRA 15:12)
(Great Britain—Pipe, Steel—Welding)

CHUMADOV, Lev Nikolayevich; SOLOV'YEVA, T.P., inzh., red.

[Conveyor line with chamberless thermal curing of the surfaces of reinforced concrete products; practices of the No.1 Polyustrovo Housing Construction Combine of the Main Administration for Construction in Leningrad] Konveiernaia liniia s beskamernoi termoobrabotkoj ploskikh zhelezobetonnykh izdelii; opty Poliustrovskogo domostroitel'nogo kombinata No.1 Glavnogo Leningradskogo upravleniya po zhilishchnomu i grazhdanskому stroitel'stvu. Moskva, Gosstroiizdat, 1962.
16 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva. 2. Nachal'nik konstruktorskogo otdela Polyustrovskogo domostroitel'nogo kombinata No.1 Glavnogo Leningradskogo upravleniya po zhilishchnomu i grazhdanskому stroitel'stvu (for Chumakov).

✓ Prevention of scale formation in sulfite-alcohol liquor evaporators. N. M. Zaitsev, E. A. Adamovich, A. T.

Chumadurov, A. P. Kostarev, and M. I. Ushatov. *Chimie i Tekhnika*, No. 4, 13-14 (1955).—The formation of scale in evaporators condensing the substrate from the sulfite-alc. process has been efficiently prevented by mixing $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ with the liquor going to evaporators in connection with a new design of the lower part of evaporators. Smooth round shape form hinders accumulation of sludge at the bottom of evaporators. This improvement has cut the necessity of chem. cleaning, in which a 0.3% AcOH soln. for stainless-steel equipment and 0.3% HCl for parts made of Cu has been used, to a min. T. Juricic

All-Union Sci. Res. Inst. Hydrolysis and Sulfite Alcohol Ind. ④

CHUMADUROV, A.T.

Lowering the cost of products. Gidroliz. i lesokhim.prom. 10 no.5:19-20
'57. (MLRA 10:8)

1.Sul'fitno-spirtovoy zavod Kamskogo tsnellyulozno-bumazhnogo
kombinata.

(Distilling industries)

CHUMADUROV, A.T.

Improve sulfite alcohol production. Gidroliz i lesokhim. prom. 12
no.5:18-20 '59.
(MIRA 12:10)

1. Nachal'nik Kamskogo sul'fitno-spirtovogo zavoda.
(Alcohol)

DERIBAS, Andrey Terent'yevich; POTAPOV, Vladimir Pavlovich; BABAK,
L.G., inzh., retsenzent; SAMOYLOV, I.A., retsenzent;
CHUMAGIN, A.I., inzh., retsenzent; GORDON, M.D., kand, tekhn.
nauk, propodavatel', retsenzent; DZHUMABAYEV, S.M., inzh.,
propodavatel', retsenzent; MATALASOV, S.F., kand. tekhn. nauk,
red.; MAKUNI, Ye.V., tekhn. red.

[Organization of freight and commercial operations]Organiza-
tsiya gruzovoi i kommercheskoi raboty. Izd.2., perer. i dop.
Moskva, Transzheldorizdat, 1961. 253 p. (MIRA 15:10)

1. Kafedra "Organizatsiya gruzovoy i kommercheskoy raboty"
Tashkentskogo instituta inzhenerov zheleznodorozhnogo trans-
porta (for Gordon, Dzhumabayev).

(Railroads—Management) (Railroads—Freight)

CHUMAGIN V.S.

AKIMENKO, A.D., kand. tekhn. nauk; GREEK, V.A., inzh.; KASHCHEYEV, N.P.,
inzh. KUZMLEV, M.Ya., inzh.; SKVORTSOV, A.A., kand. tekhn. nauk;
CHUMAGIN, V.S., inzh.

Utilizing waste nitrogen from oxygen plants as a protective atmos-
phere for metal heat treatment in furnaces. Vest. mash. 38 no.4:
40-42 Ap '58. (MIRA 11:3)
(Metals--Heat treatment) (Protective atmospheres) (Nitrogen)

CHUMAK, A.

~~With the miners of Karaganda. Sov. profsoiuzy 6 no. 4:54-55~~
Ap '58. (MIRA 11:5)
(Karaganda Basin--Works councils)